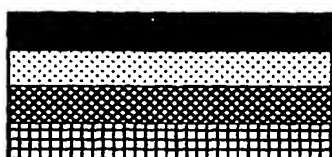


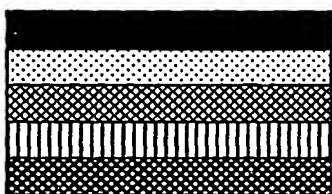
Figure 1A

backing layer
 adhesive layer
 controlled-release composition layer
 peel-off backing layer

Figure 1B

(skin surface)

backing layer
 adhesive layer
 controlled-release composition layer

Figure 1C

(skin surface)

backing layer
 adhesive layer
 cushion layer
 absorbent layer
 controlled-release composition layer

Figure 1D

(skin surface)

backing layer
 adhesive layer
 absorbent layer (inside) surrounded by an outer ring of adhesive (outside)
 controlled-release layer (inside) surrounded by an outer ring of adhesive (outside)

Figure 2. % Protease B enzyme released from PSA/PVA formulations. Release is presented as cumulative enzyme activity, as a percentage of the total enzyme added, in buffered media in contact with the controlled release material sampled at 0.16,1,2,4,8,16 and 24 hour time points.

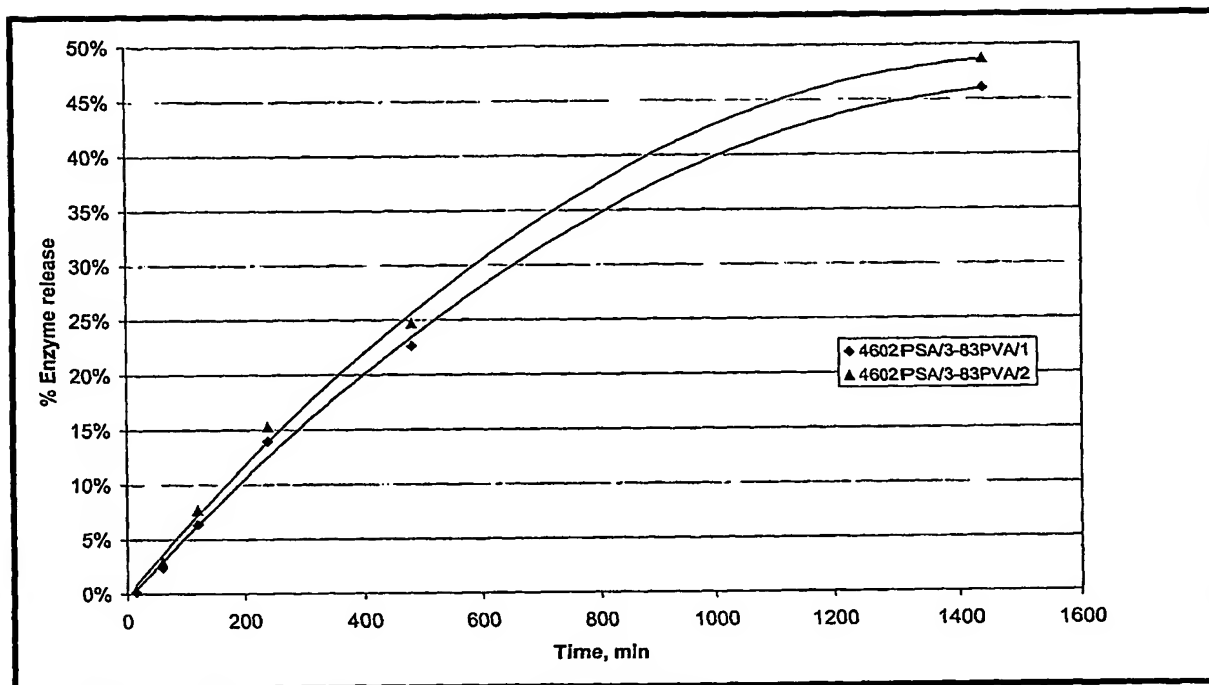


Figure 3. Enzyme released from varying levels of LG12-containing PSA 7-4602 / PVA Patches. Release is presented as cumulative enzyme activity in buffered media in contact with the controlled release material sampled at 0.16,1,2,4,8,16 and 24 hour time points.

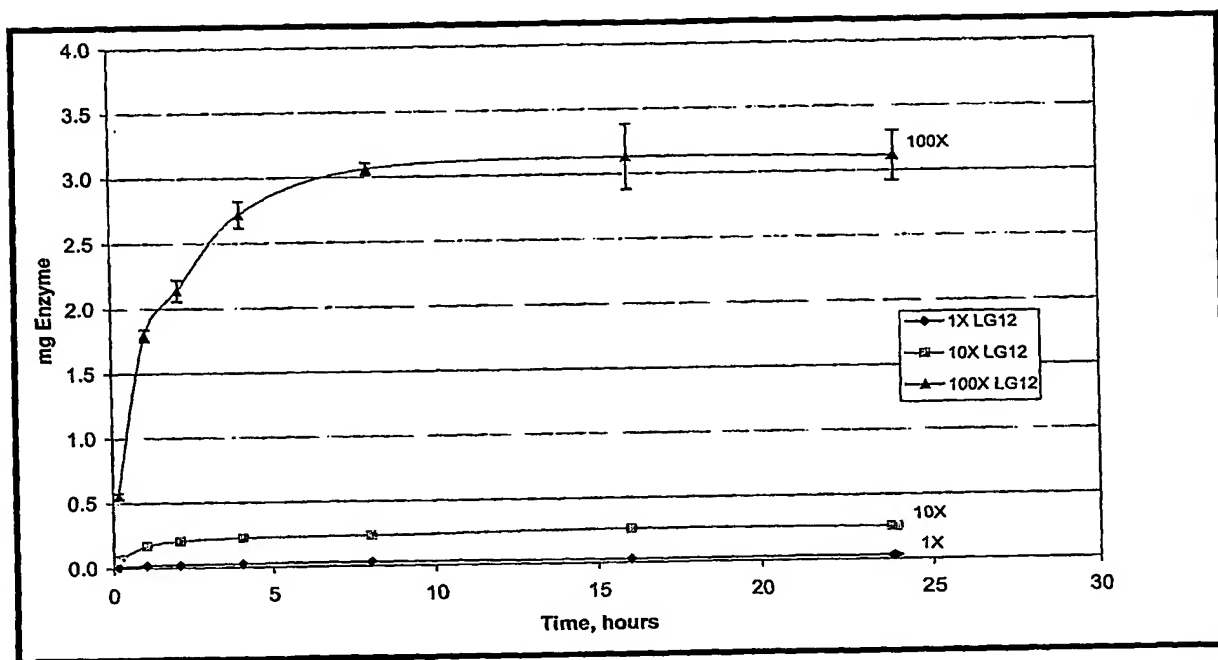


Figure 4. % Protease B enzyme released from 2220 formulations. Release is presented as cumulative enzyme activity, as a percentage of the total enzyme added, in buffered media in contact with the controlled release material sampled at 0.16,1,2,4,8,16 and 24 hour time points.

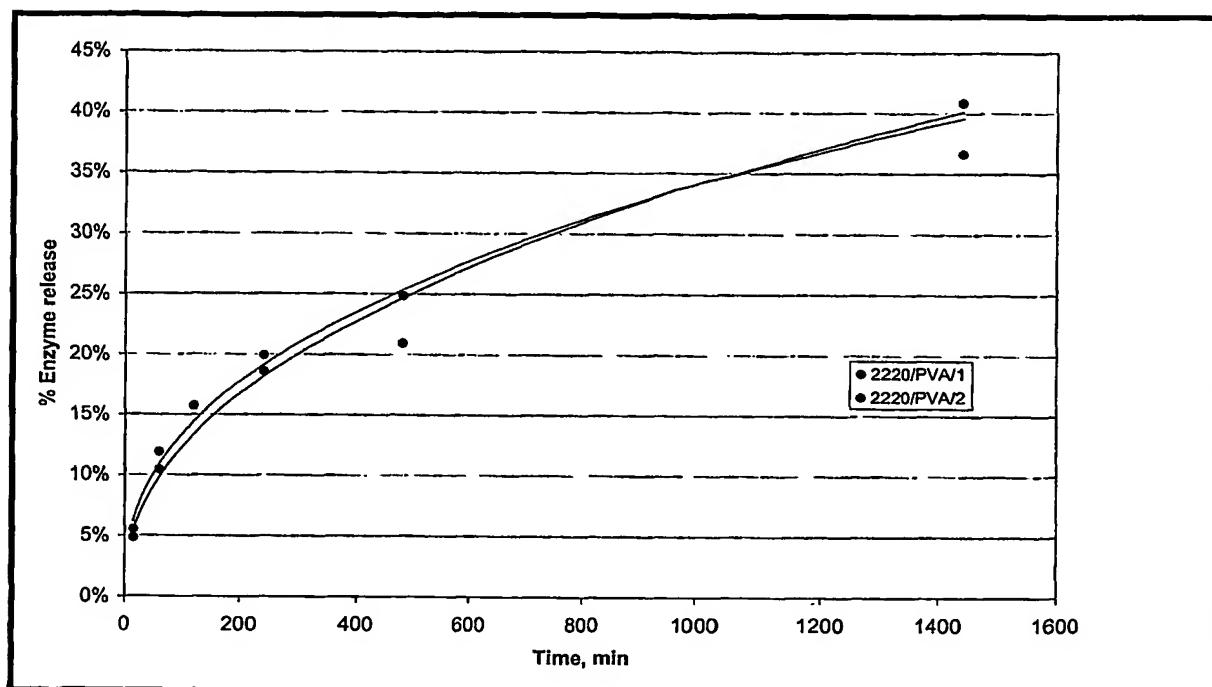


Figure 5. % Protease B enzyme released from 9090 formulations. Release is presented as cumulative enzyme activity, as a percentage of the total enzyme added, in buffered media in contact with the controlled release material sampled at 0.16,1,2,4,8,16 and 24 hour time points.

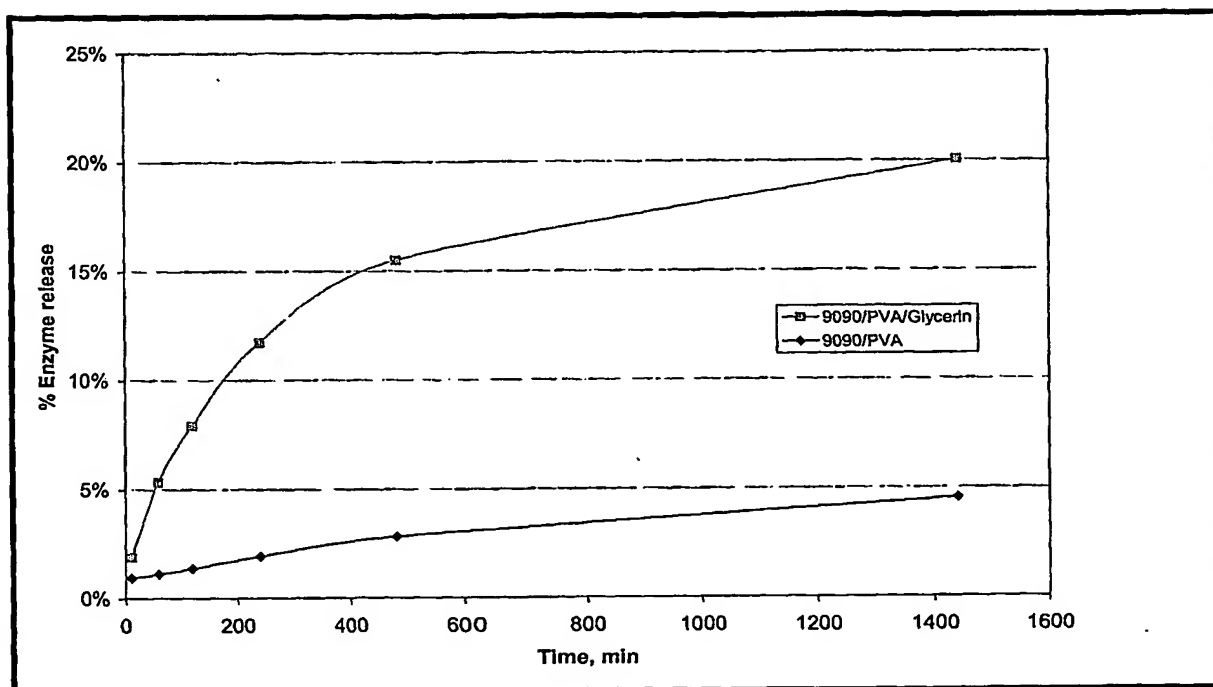


Figure 6. The effect of glycerin on % Protease B enzyme released from PSA / PVA formulations. Release is presented as cumulative enzyme activity, as a percentage of the total enzyme added, in buffered media in contact with the controlled release material sampled at 0.16,1,2,4,8,16 and 24 hour time points.

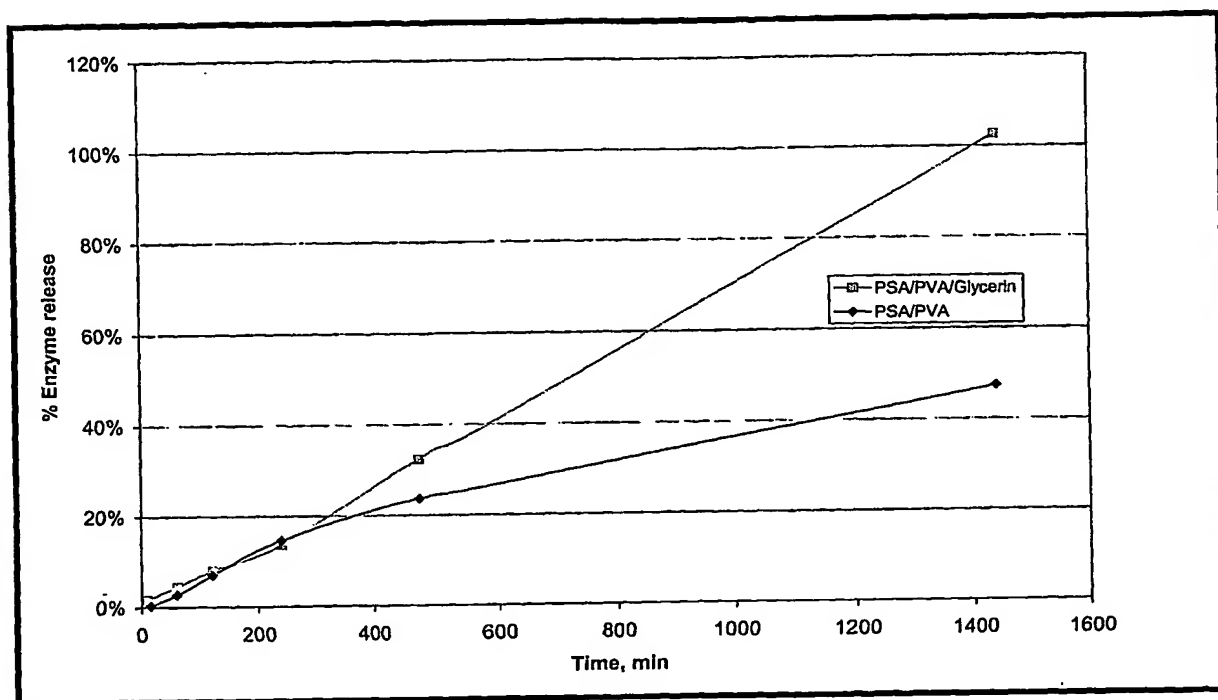


Figure 7. The effect of processing on the release of the LG12 enzyme. Release is presented as cumulative enzyme activity, as a percentage of the total enzyme added, in buffered media in contact with the controlled release material sampled at 0.16,1,2,4,8,16 and 24 hour time points. This compared the relative release from Oil in Water emulsions (2 step PSA addition) versus Water in Oil emulsions (1 step PSA addition)

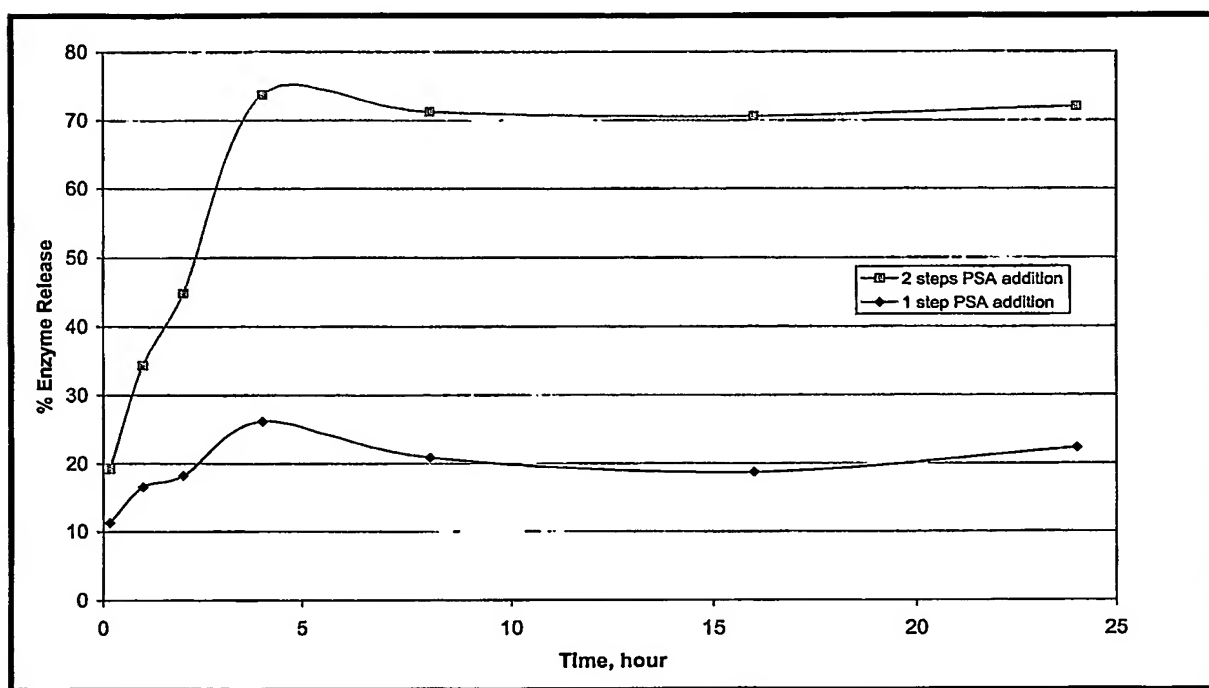


Figure 8. LG 12 released from PSA 7-4602 / PVA / colloidal silver patches.
Release is presented as cumulative enzyme activity, as a percentage of the total enzyme added, in buffered media in contact with the controlled release material sampled at 0.16,1,2,4,8,16 and 24 hour time points.

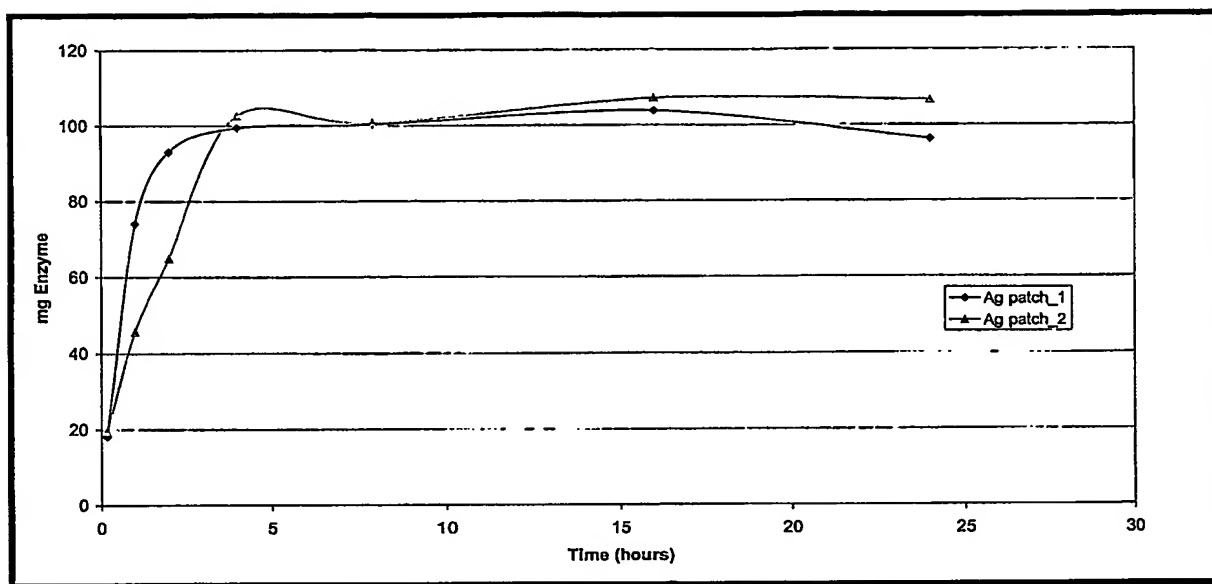
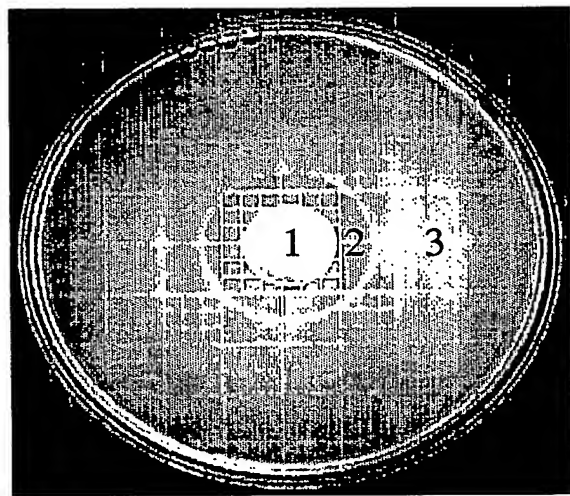
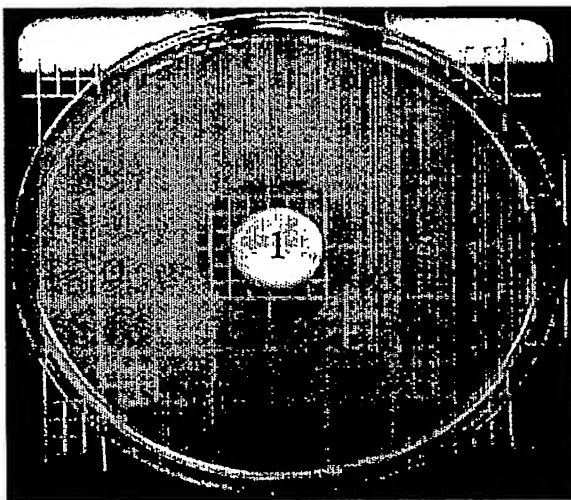


Figure 9. LG12 enzyme release from a PSA/PVA / colloidal silver formulation on a skim milk plate in 24 hours. Released protease creates a zone of clearing as the casein is hydrolyzed.

¹ sample film.

² clear zone indicative of proteolytic digestion of skim milk protein.

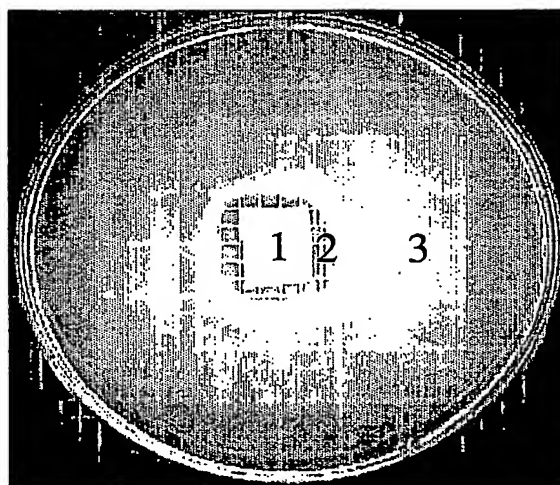
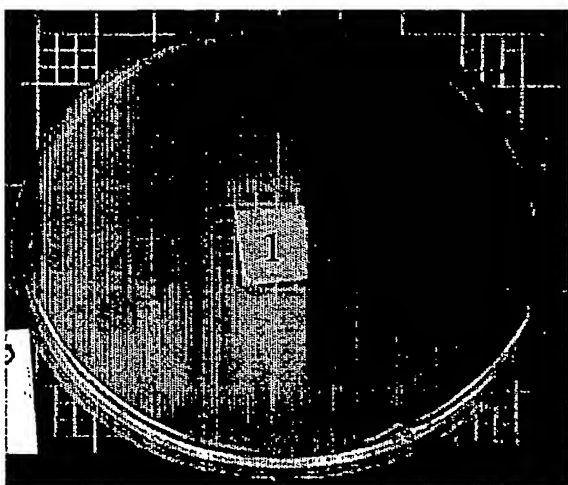
³ non-digested skim milk protein.



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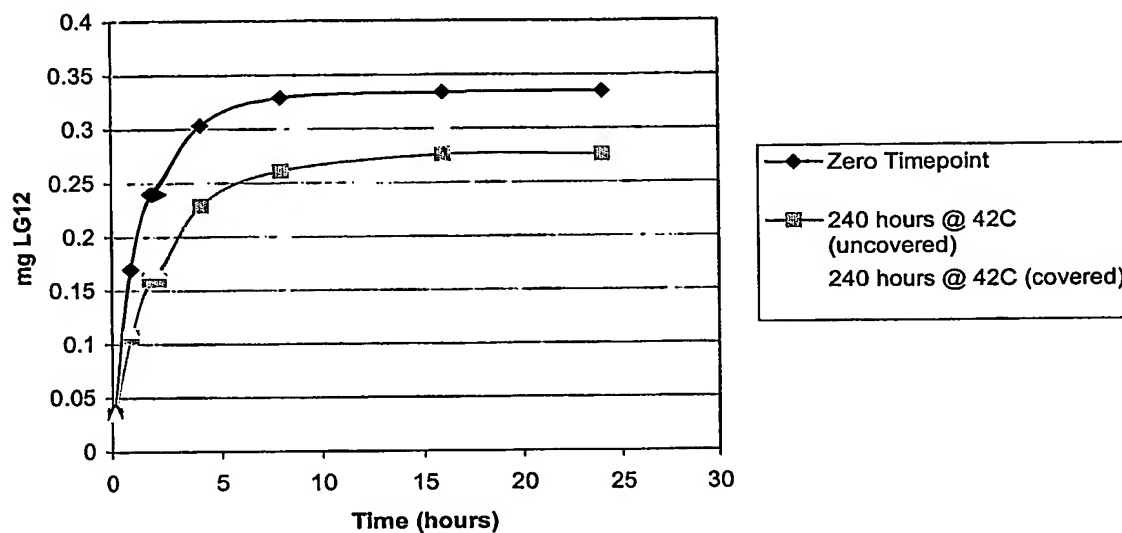
Figure 10. LG12 enzyme release from a PSA/PVA / DC 5700 formulation on a skim milk plate in 24 hours. Released protease creates a zone of clearing as the casein is hydrolyzed.

- ¹ sample film.
- ² clear zone indicative of proteolytic digestion of skim milk protein.
- ³ non-digested skim milk protein.



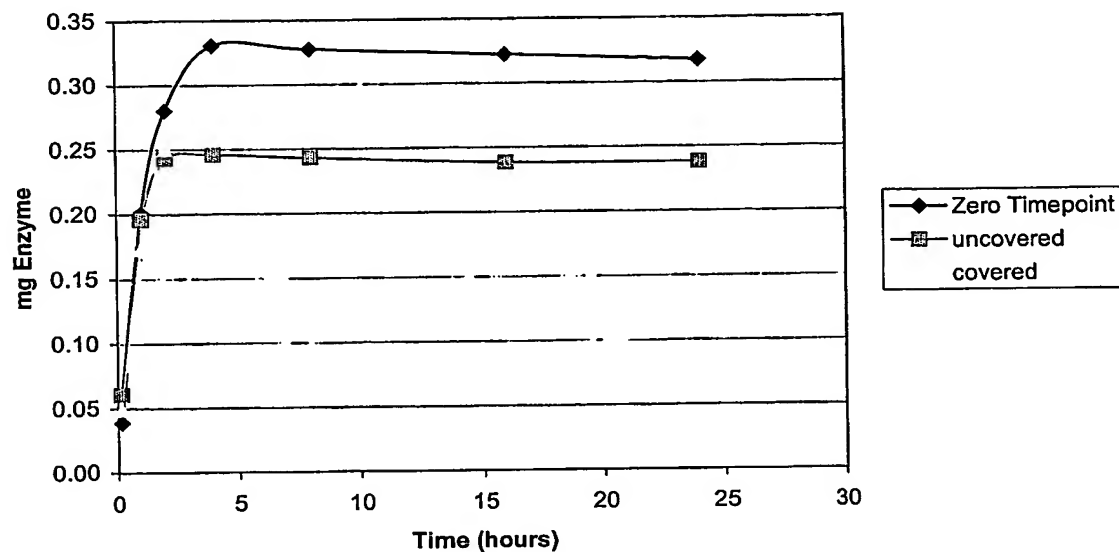
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Figure 11. LG12 released from PSA 7-4602 + PVA patch formulation (10 incubation at 42°C). Release of active enzyme is compared with material tested before incubation of the release material in an oven at 42 ° C. Samples we stored either directly in the oven (uncovered) or in a small plastic petri dish to retard evaporation (covered)



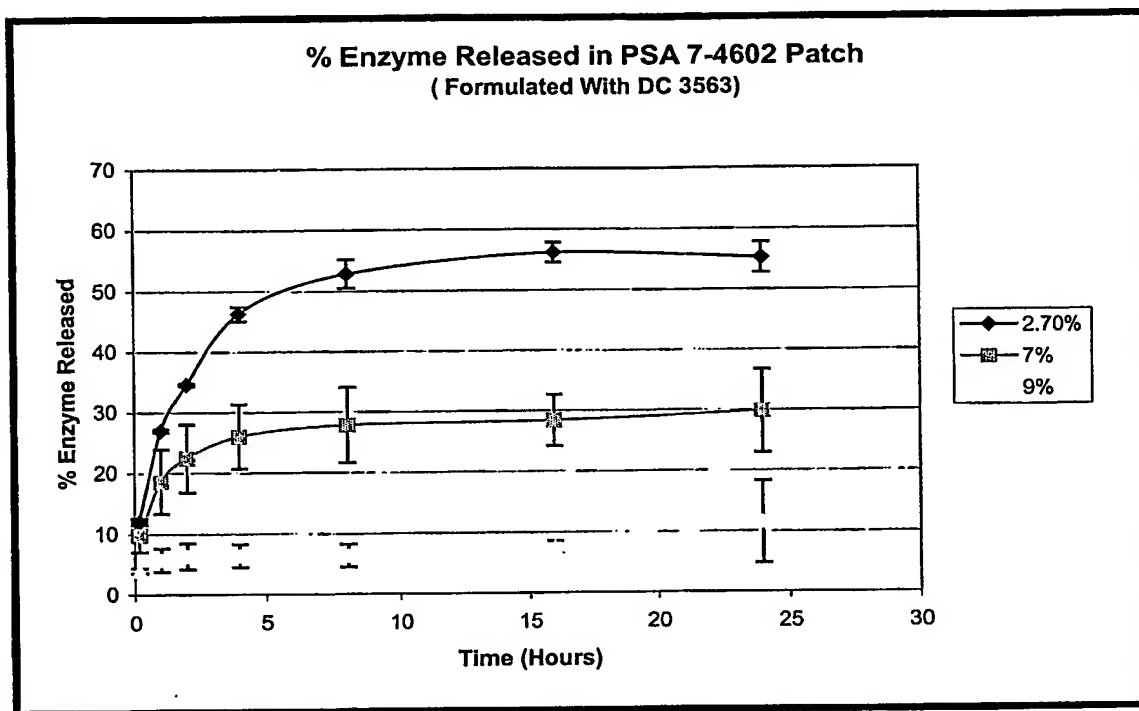
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Figure 12. LG12 released from PSA 7-4602 + PVA patch formulation (20-day incubation at 42°C). Release of active enzyme is compared with material tested before incubation of the release material in an oven at 42 ° C. Samples we stored either directly in the oven (uncovered) or in a small plastic petri dish to retard evaporation (covered)



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Figure 13. Enzyme released from a PVA + PSA 7-4602 patch formulated with varying levels of DC 3563. Release is presented as cumulative enzyme activity, as a percentage of the total enzyme added, in buffered media in contact with the controlled release material sampled at 0.16,1,2,4,8,16 and 24 hour timepoints.



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